

## FLORENTINA-HLD-W

~40° wide beam

### SPECIFICATION:

Dimensions	285.6 x 19.5 mm
Height	9.5 mm
Fastening	screw
ROHS compliant	yes ⓘ

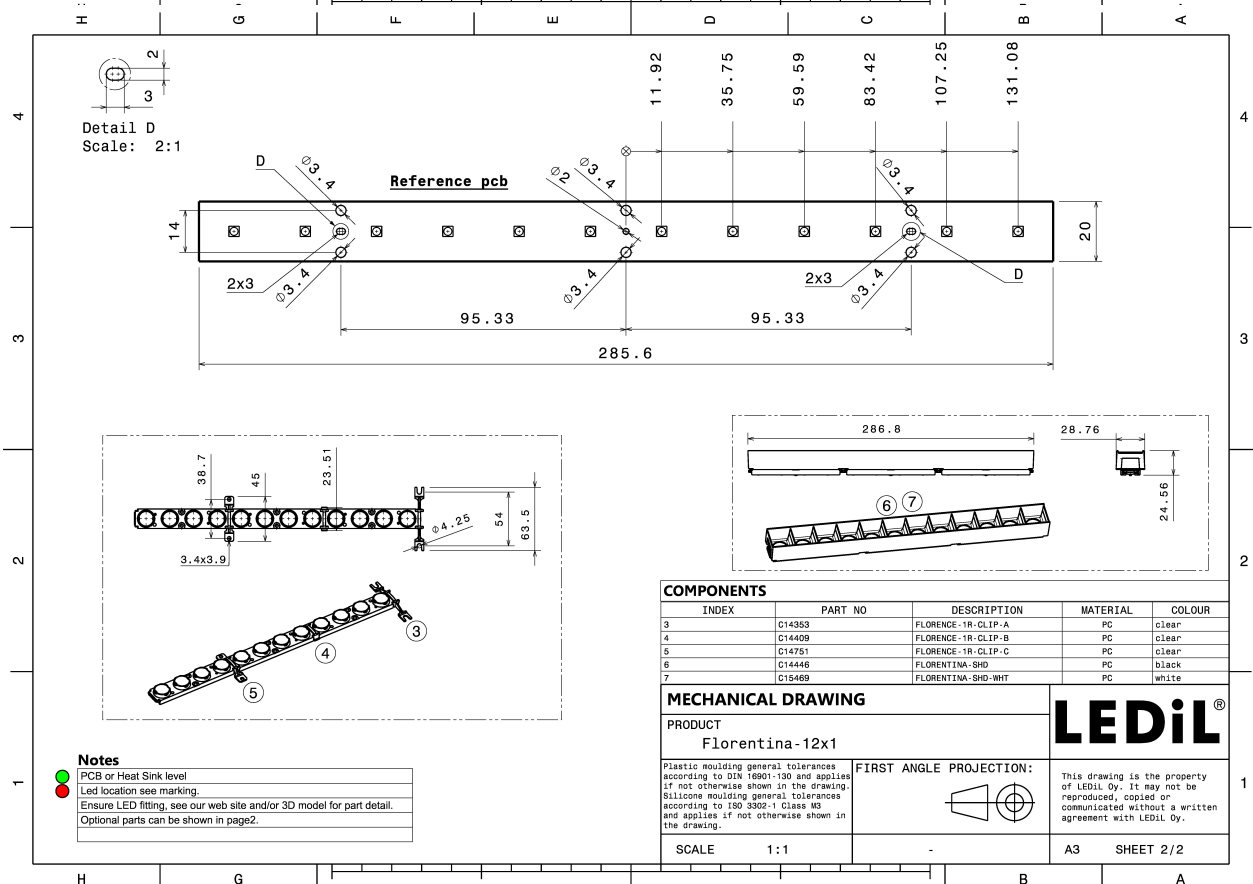
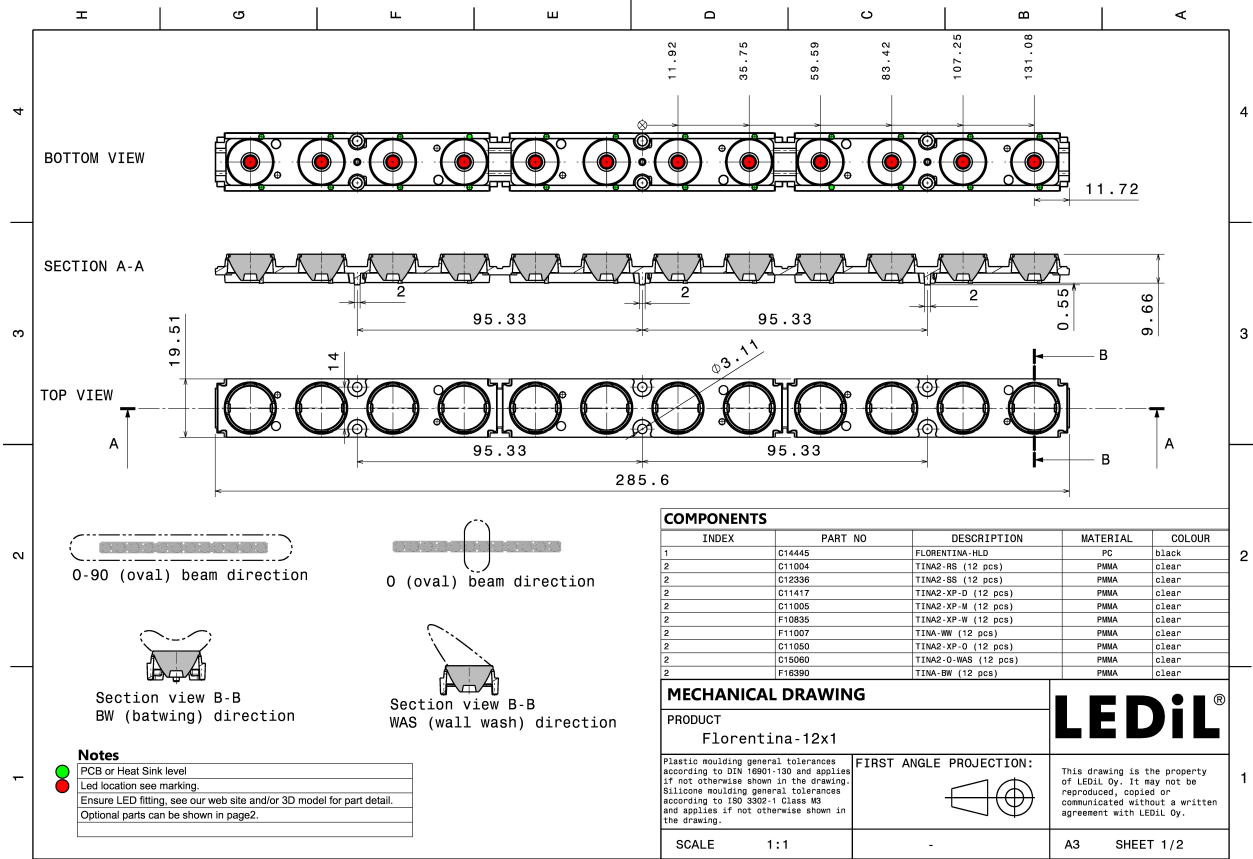
### MATERIALS:

Component	Type	Material	Colour	Finish
TINA-XP-W	Single lens	PMMA	clear	
FLORENTINA-HLD	Holder	PC	black	

### ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
FP14997_FLORENTINA-HLD-W	Single lens	160	32	16	5.2
» Box size: 398 x 298 x 140 mm					



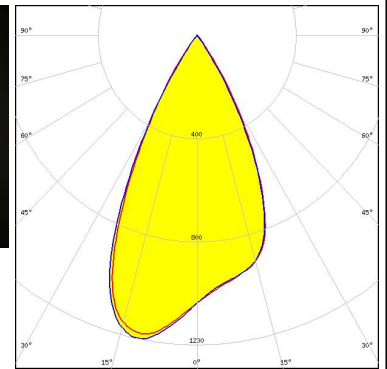


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

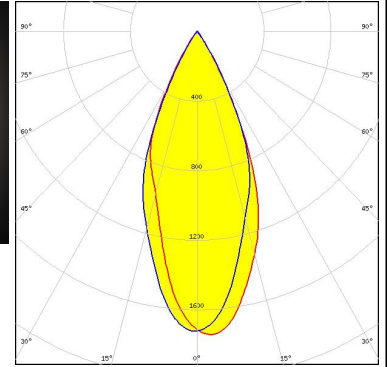
#### OPTICAL RESULTS (MEASURED):



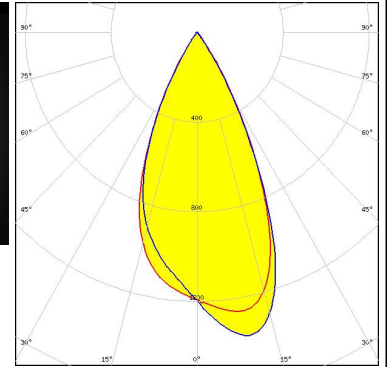
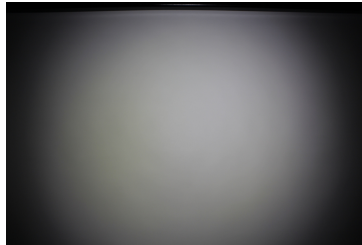
**LED** QUICK FLUX LED FL-XG 1x12 xxx  
**FWHM / FWTM** 51.0° / 69.0°  
**Efficiency** 80 %  
**Peak intensity** 1.3 cd/m  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**  
 C14446\_FLORENTINA-SHD



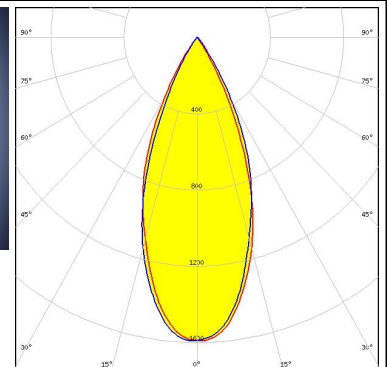
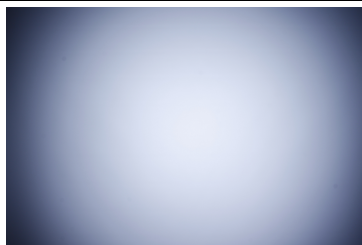
**LED** XP-E2  
**FWHM / FWTM** 42.0° / 66.0°  
**Efficiency** 84 %  
**Peak intensity** 1.8 cd/m  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**  
 C14446\_FLORENTINA-SHD



**LED** XP-G3  
**FWHM / FWTM** 47.0° / 67.0°  
**Efficiency** 79 %  
**Peak intensity** 1.4 cd/m  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**  
 C14446\_FLORENTINA-SHD



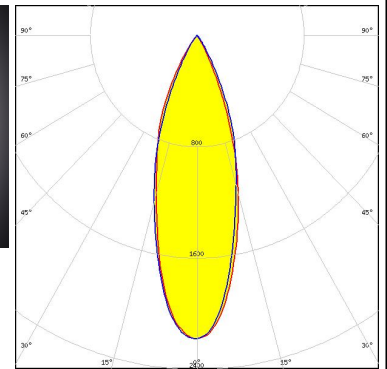
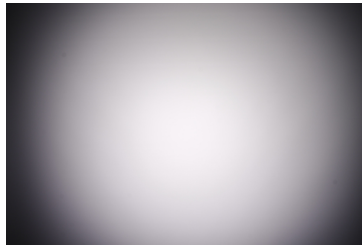
**LED** LUXEON Rebel ES  
**FWHM / FWTM** 43.0° / 67.0°  
**Efficiency** 81 %  
**Peak intensity** 1.6 cd/m  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**  
 C14446\_FLORENTINA-SHD



#### OPTICAL RESULTS (MEASURED):

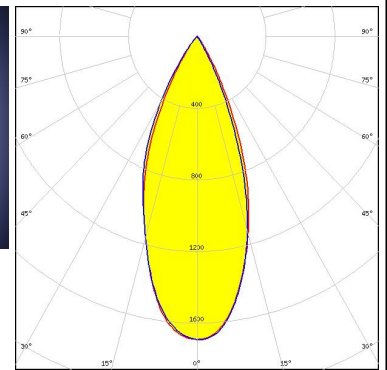
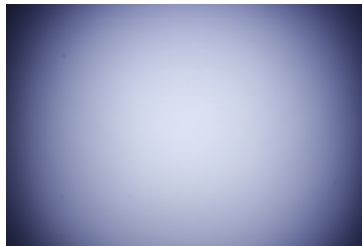
##### LUMILEDS

LED LUXEON Rebel Plus  
 FWHM / FWTM 33.0° / 61.0°  
 Efficiency 83 %  
 Peak intensity 2.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14446\_FLORENTINA-SHD



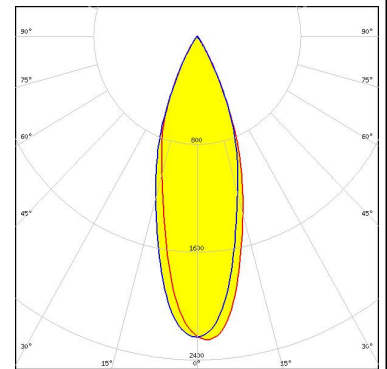
##### LUMILEDS

LED LUXEON TX  
 FWHM / FWTM 41.0° / 66.0°  
 Efficiency 82 %  
 Peak intensity 1.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14446\_FLORENTINA-SHD



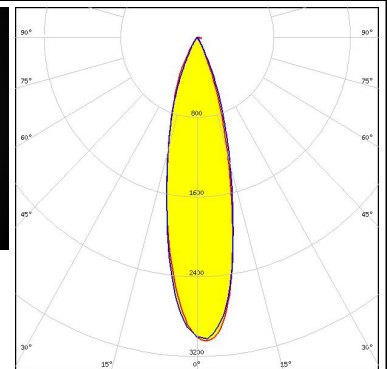
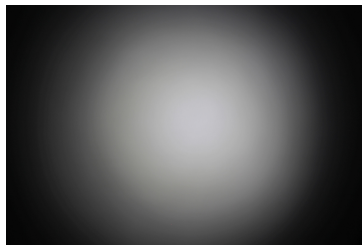
##### LUMILEDS

LED LUXEON Z ES  
 FWHM / FWTM 33.0° / 60.0°  
 Efficiency 84 %  
 Peak intensity 2.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14446\_FLORENTINA-SHD


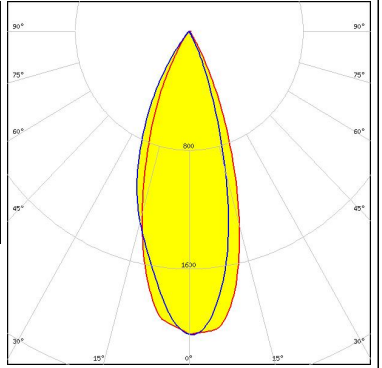

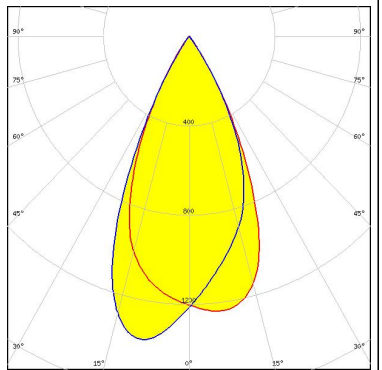

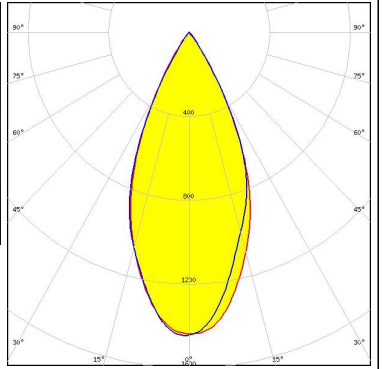
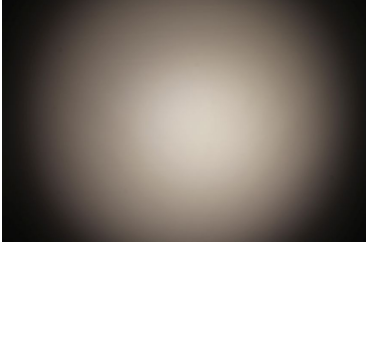
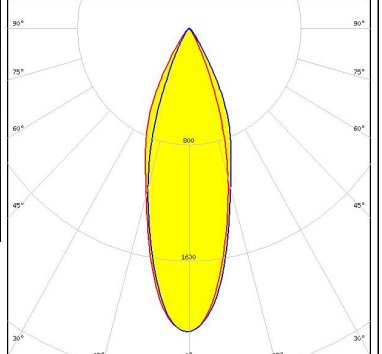


##### NICHIA

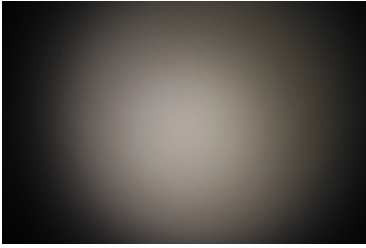
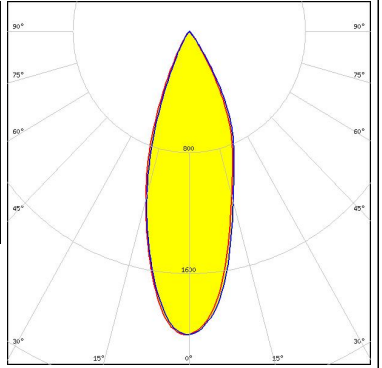
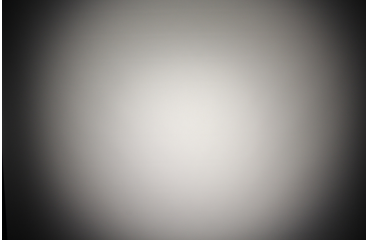
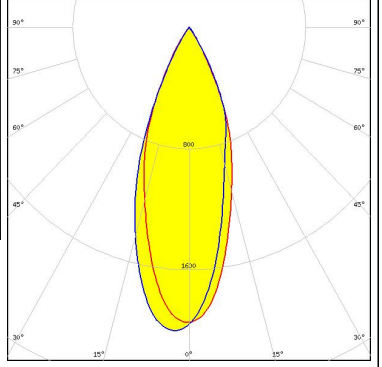
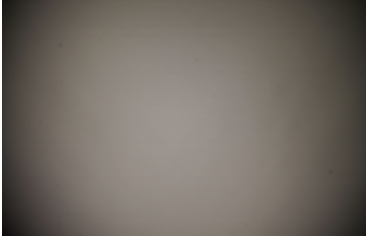
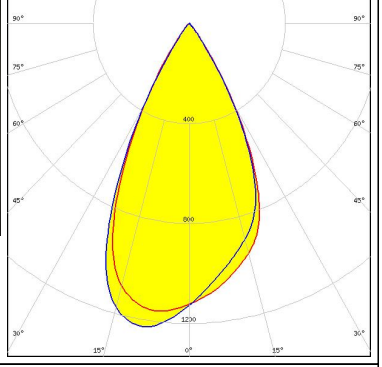
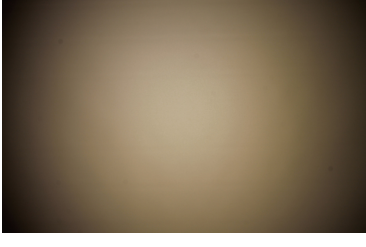
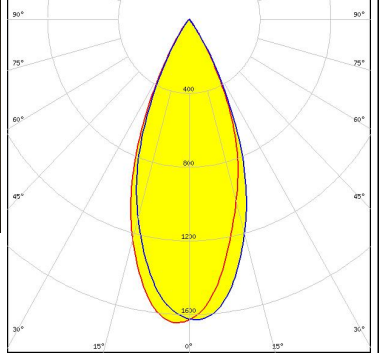
LED NCSxE17A  
 FWHM / FWTM 26.0° / 52.0°  
 Efficiency 81 %  
 Peak intensity 3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14446\_FLORENTINA-SHD



#### OPTICAL RESULTS (MEASURED):

<p><b>NICHIA</b></p> <p>LED NF2x757G            FWHM / FWTM 36.0° / 60.0°            Efficiency 84 %            Peak intensity 2 cd/lm            LEDs/each optic 1            Light colour White            Required components:            C14446_FLORENTINA-SHD</p>		
<p><b>NICHIA</b></p> <p>LED NVSxx19B/NVSxx19C            FWHM / FWTM 48.0° / 69.0°            Efficiency 79 %            Peak intensity 1.4 cd/lm            LEDs/each optic 1            Light colour White            Required components:            C14446_FLORENTINA-SHD</p>		
<p><b>OSRAM</b>  <small>Opto Semiconductors</small></p> <p>LED OSLON Square EC            FWHM / FWTM 46.0° / 69.0°            Efficiency 80 %            Peak intensity 1.5 cd/lm            LEDs/each optic 1            Light colour White            Required components:            C14446_FLORENTINA-SHD</p>		
<p><b>OSRAM</b>  <small>Opto Semiconductors</small></p> <p>LED OSLON SSL 150            FWHM / FWTM 33.0° / 62.0°            Efficiency 85 %            Peak intensity 2.1 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		

#### OPTICAL RESULTS (MEASURED):

<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED OSLON SSL 150</p> <p>FWHM / FWTM 34.0° / 62.0°</p> <p>Efficiency 81 %</p> <p>Peak intensity 2 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C14446_FLORENTINA-SHD</p>		
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED OSLON SSL 80</p> <p>FWHM / FWTM 35.0° / 63.0°</p> <p>Efficiency 83 %</p> <p>Peak intensity 2 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C14446_FLORENTINA-SHD</p>		
<p><b>SAMSUNG</b></p> <p>LED LH351B</p> <p>FWHM / FWTM 52.0° / 72.0°</p> <p>Efficiency 82 %</p> <p>Peak intensity 1.3 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C14446_FLORENTINA-SHD</p>		
<p><b>TOSHIBA</b> Leading Innovation &gt;&gt;&gt;</p> <p>LED TL1L4</p> <p>FWHM / FWTM 42.0° / 66.0°</p> <p>Efficiency 82 %</p> <p>Peak intensity 1.7 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C14446_FLORENTINA-SHD</p>		

#### OPTICAL RESULTS (SIMULATED):

<p><b>CREE</b> LED</p> <p>LED: XP-G2 HE            FWHM / FWTM: 46.0° / 66.0°            Efficiency: 90 %            Peak intensity: 1.6 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:            C14446_FLORENTINA-SHD</p>	
<p><b>NICHIA</b></p> <p>LED: NVSxE21A            FWHM / FWTM: 34.0° / 57.0°            Efficiency: 94 %            Peak intensity: 2.9 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:            C14446_FLORENTINA-SHD</p>	
<p><b>NICHIA</b></p> <p>LED: NVSxE21A            FWHM / FWTM: 30.0° / 54.0°            Efficiency: 94 %            Peak intensity: 3.3 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>	
<p><b>NICHIA</b></p> <p>LED: NWSx229A            FWHM / FWTM: 53.0° / 73.0°            Efficiency: 82 %            LEDs/each optic: 1            Light colour: White            Required components:            C14446_FLORENTINA-SHD</p>	

#### GENERAL INFORMATION:

NOTE: The typical beam angle will be changed by different color, chip size and chip position tolerance. The typical total beam angle is the full angle measured where the luminous intensity is half of the peak value.

#### MATERIALS:

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